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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
09/976,780	10/12/2001	Tuomo Syvanne	BER-021	2214	
26717	7590 03/17/2005		EXAM	EXAMINER	
RONALD C	CRAIG FISH, A LAW CORPORATION ALI, MOHAMMAD			AMMAD	
LOS GATOS,	CA 95032		ART UNIT	PAPER NUMBER	
			2167		

DATE MAILED: 03/17/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
		09/976,780	SYVANNE, TUOMO				
	Office Action Summary	Examiner	Art Unit				
		Mohammad Ali	2167				
Period fo	The MAILING DATE of this communication	on appears on the cover sheet w	ith the correspondence address				
A SH THE - Exte after - If the - If NC - Failu Any earn	ORTENED STATUTORY PERIOD FOR F MAILING DATE OF THIS COMMUNICAT nsions of time may be available under the provisions of 37 C SIX (6) MONTHS from the mailing date of this communicati to period for reply specified above is less than thirty (30) days to period for reply is specified above, the maximum statutory re to reply within the set or extended period for reply will, by reply received by the Office later than three months after the ed patent term adjustment. See 37 CFR 1.704(b).	ION. CFR 1.136(a). In no event, however, may a on. to a reply within the statutory minimum of thi period will apply and will expire SIX (6) MO statute, cause the application to become A	reply be timely filed ty (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).				
Status							
1)⊠	Responsive to communication(s) filed on	07 October 2004.	•				
'=	,	This action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposit	on of Claims						
5)□ 6)⊠ 7)⊠ 8)□ Applicat i	Claim(s) 1-17 is/are pending in the applic 4a) Of the above claim(s) 7-12 is/are withe Claim(s) is/are allowed. Claim(s) 1-6 and 13-17 is/are rejected. Claim(s) 1,2,15 and 17 is/are objected to Claim(s) are subject to restriction a on Papers The specification is objected to by the Exa The drawing(s) filed on is/are: a) Applicant may not request that any objection to Replacement drawing sheet(s) including the or	drawn from consideration. and/or election requirement. aminer. accepted or b) □ objected to to the drawing(s) be held in abeya	nce. See 37 CFR 1.85(a).				
11)	The oath or declaration is objected to by the	he Examiner. Note the attache	d Office Action or form PTO-152.				
12)[a)[Acknowledgment is made of a claim for fo All b) Some * c) None of: 1. Certified copies of the priority docu 2. Certified copies of the priority docu 3. Copies of the certified copies of the application from the International Beet the attached detailed Office action for	ments have been received. ments have been received in A priority documents have beer ureau (PCT Rule 17.2(a)).	Application No received in this National Stage				
2) 🔲 Notic 3) 🔯 Infor	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-94 nation Disclosure Statement(s) (PTO-1449 or PTO/S r No(s)/Mail Date <u>4-22-02</u> .	.8) Paper No	Summary (PTO-413) s)/Mail Date nformal Patent Application (PTO-152) 				

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DETAILED ACTION

1. This communication is in response to the Election made on 10/07/04.

The application has been examined. Claims 1-17 are pending in this Office Action. Applicant's elected Group I, claims 1-6 and 13-17 with traverse and cancels claims 7-12.

Claim Rejections - 35 USC § 101

2. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 1, 2, 15 and 17 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter. These claims are not in Technological Arts, since no technology is recited.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1-6 and 13-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ke et al. ('Ke' hereinafter), PCT US00/08708 in view of Michael Coss ('Coss' hereinafter), EP 0909075 A1.

With respect to claim 1,

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Ke discloses a method for processing data packets in a gateway element, said method comprising (see page 3, lines 10-24) the steps of:

providing screening information comprising a set of rules (see page 3, lines 30-34), and

said screening information is hierarchically structured so that it comprises a first rule, which specifies first header information, and a subset of rules relating to said first rule (see page 3, lines 30-33 et seq), and in that

comparing a data packet, to said subset of rules only if the header information of the data packet matches the header information of said first rule (see col. 8, lines 9-21 et seq).

processing a data packet according to a rule belonging to the set of rules (see page 5, lines 4-10 et seq), belonging to the set of rules (see page 3, lines 30-33 et seq), the header information of said data packet matching the header information of said rule (see page 8, lines 9-21, Fig. 1).

Ke does not explicitly indicate the claimed "hierarchical structure".

Coss discloses the claimed hierarchical structure (calling for inclusion of packet packet data from certain different category "hierarchical", see page 7, lines 45-50, Fig. 8).

It would have been obvious to one ordinary skill in the gateway network processing art at the time of the present invention to combined the cited references because the hierarchical structure of Coss teachings would have allowed Ke's system to improve the processing efficiency, security in the rule based information, as

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suggested by Coss, at page 3, lines 35-41 et seq. Hierarchical structure as taught by Coss improves the rule set applied to any packet to determine information as incoming and outgoing network interface (see page 3, lines 39-41 et seq, Coss).

Claim 2 has same scope of claim 1 except said subset of rules comprises a second rule, which specifies second header information, and a second subset of rules, said second subset of rules relating to said second rule (see page 3, lines 29 to page 4, lines 20), and in that in said step of comparing a data packet, said data packet is compared to said second subset of rules only, if the header information or the data packet matches the header information of the second rule (see page 8, lines 9-21 et seq) and essentially rejected for the rationale as discussed in claim 1.

Ke does not explicitly indicate the claimed "hierarchical structure".

Coss discloses the claimed hierarchical structure (calling for inclusion of packet packet data from certain different category "hierarchical", see page 7, lines 45-50, Fig. 8).

It would have been obvious to one ordinary skill in the gateway network processing art at the time of the present invention to combined the cited references because the hierarchical structure of Coss teachings would have allowed Ke's system to improve the processing efficiency, security in the rule based information, as suggested by Coss, at page 3, lines 35-41 et seq. Hierarchical structure as taught by Coss improves the rule set applied to any packet to determine information as incoming and outgoing network interface (see page 3, lines 39-41 et seq, Coss).

As to claim 3,

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Ke teaches said set of rules is an ordered sequence of rules, said subset of rules is an ordered sub-sequence of said ordered sequence of rules, and in said step of comparing a data packet, said data packet is compared to the rules in the order defined by the ordered sequence (see page 3, lines 10-23 et seq).

As to claim 4,

Ke teaches said subset of rules, an entity which is authorized to modify said subset, is specified (see page 13, lines 22-33, Fig. 6b).

As to claim 5,

Ke teaches at least one rule belonging to said subset of rules comprises a generic information portion, said generic information portion to be replaced with second information before a data packet is compared to said at least one rule (see page 13, lines 22-33 et seq).

As to claim 6,

Ke teaches said screening information comprises a first part, which is modifiable by an entity authorized to configure said gateway element, and a second part, which is modifiable by an entity specifically authorized to modify said second part (see page 3, lines 6-23 et seq).

Claim 13-14 and 17 have the same scope as of claims 1 and 2 and essentially rejected for the same rationale as discussed above.

Ke does not explicitly indicate the claimed "hierarchical structure".

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Coss discloses the claimed hierarchical structure (calling for inclusion of packet packet data from certain different category "hierarchical", see page 7, lines 45-50, Fig. 8).

It would have been obvious to one ordinary skill in the gateway network processing art at the time of the present invention to combined the cited references because the hierarchical structure of Coss teachings would have allowed Ke's system to improve the processing efficiency, security in the rule based information, as suggested by Coss, at page 3, lines 35-41 et seq. Hierarchical structure as taught by Coss improves the rule set applied to any packet to determine information as incoming and outgoing network interface (see page 3, lines 39-41 et seq, Coss).

With respect to claim 15,

Ke discloses a data structure comprising screening information (see page 3, lines 9-23), wherein said screening information is hierarchically structured so that it comprises a first rule (see page 4, lines 15-20 et seq), which specifies first header information, and a subset of rules relating to said first rule, said first header information being common to said rules belonging to said subset of rules (see page 8, lines 8-21).

Ke does not explicitly indicate the claimed "hierarchical structure".

Coss discloses the claimed hierarchical structure (calling for inclusion of packet packet data from certain different category "hierarchical", see page 7, lines 45-50, Fig. 8).

It would have been obvious to one ordinary skill in the gateway network processing art at the time of the present invention to combined the cited references

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because the hierarchical structure of Coss teachings would have allowed Ke's system to improve the processing efficiency, security in the rule based information, as suggested by Coss, at page 3, lines 35-41 et seq. Hierarchical structure as taught by Coss improves the rule set applied to any packet to determine information as incoming and outgoing network interface (see page 3, lines 39-41 et seq, Coss).

As to claim 16,

Ke teaches characterized in that said subset of rules comprises a second rule which specifies second header information (see page 3, lines 25-34), and a second subset of rules, said second subset of rules relating to said second rule, said second header information being common to said rules belonging to said second subset of rules (see page 8, lines 8-21, Fig. 6a).

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5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mohammad Ali whose telephone number is (571) 272-4105. The examiner can normally be reached on Monday-Thursday (7:30 am-6:00 pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John E Breene can be reached on (571) 272-4107. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Mohammad Ali Primary Examiner Art Unit 2167

MA March 16, 2005